

Contents Vol. 64 (1999)

The impact of human activities on sediments of San Francisco Bay, California: an overview A. van Geen and S.N. Luoma	1
Sediment chronology in San Francisco Bay, California, defined by ^{210}Pb , ^{234}Th , ^{137}Cs , and $^{239,240}\text{Pu}$ C.C. Fuller, A. van Geen, M. Baskaran and R. Anima	7
Constraints on the sedimentation history of San Francisco Bay from ^{14}C and ^{10}Be A. van Geen, N.J. Valette-Silver, S.N. Luoma, C.C. Fuller, M. Baskaran, F. Tera and J. Klein	29
Historical trends of metals in the sediments of San Francisco Bay, California M.I. Hornberger, S.N. Luoma, A. van Geen, C. Fuller and R. Anima	39
A record of estuarine water contamination from the Cd content of foraminiferal tests in San Francisco Bay, California A. van Geen and S.N. Luoma	57
Stable lead isotopic analyses of historic and contemporary lead contamination of San Francisco Bay estuary P.I. Ritson, R.M. Bouse, A.R. Flegel and S.N. Luoma	71
Chlorinated hydrocarbon pesticides and polychlorinated biphenyls in sediment cores from San Francisco Bay M.I. Venkatesan, R.P. de Leon, A. van Geen and S.N. Luoma	85
Sedimentary record of anthropogenic and biogenic polycyclic aromatic hydrocarbons in San Francisco Bay, California W.E. Pereira, F.D. Hostettler, S.N. Luoma, A. van Geen, C.C. Fuller and R.J. Anima	99
A record of hydrocarbon input to San Francisco Bay as traced by biomarker profiles in surface sediment and sediment cores F.D. Hostettler, W.E. Pereira, K.A. Kvenvolden, A. van Geen, S.N. Luoma, C.C. Fuller and R. Anima	115
<i>Research Papers</i>	
^{226}Ra and ^{228}Ra in the mixing zones of the Mississippi and Atchafalaya Rivers: indicators of groundwater input J.M. Krest, W.S. Moore and Rama	129
Seasonal variations of dissolved organic matter in the northern Adriatic Sea M. Pettine, L. Patrolecco, M. Manganelli, S. Capri and M.G. Farrace	153
Dissolved protein fluorescence in two Maine estuaries L.M. Mayer, L.L. Schick and T.C. Loder III	171
Model simulation of the carbonate chemistry in the microenvironment of symbiont bearing foraminifera D.A. Wolf-Gladrow, J. Bijma and R.E. Zeebe	181
A diffusion-reaction model of carbon isotope fractionation in foraminifera R.E. Zeebe, J. Bijma and D.A. Wolf-Gladrow	199
The chemical composition of shallow-water hydrothermal fluids in Tutum Bay, Ambitle Island, Papua New Guinea and their effect on ambient seawater T. Pichler, J. Veizer and G.E.M. Hall	229
<i>Research Papers</i>	
Adsorption of dissolved phosphate onto loess particles in surface and deep Eastern Mediterranean water B. Herut, T. Zohary, R.D. Robarts and N. Kress	253
Biological production of methyl bromide in the coastal waters of the North Sea and open ocean of the northeast Atlantic J.M. Baker, C.E. Reeves, P.D. Nightingale, S.A. Penkett, S.W. Gibb and A.D. Hatton	267

Determination of adsorbed and absorbed polychlorinated biphenyls (PCBs) in seawater microorganisms P. Wallberg and A. Andersson.	287
The C ₃₇ alkenone record of seawater temperature during seasonal thermocline stratification I. Bentaleb, J.O. Grimalt, F. Vidussi, J.-C. Marty, V. Martin, M. Denis, C. Hatté and M. Fontugne	301
The carbon dioxide system in the northwestern Indian Ocean during south-west monsoon L. Mintrop, A. Körtzinger and J.C. Duinker.	315
Accurate measurement of O ₂ , N ₂ , and Ar gases in water and the solubility of N ₂ S. Emerson, C. Stump, D. Wilbur and P. Quay	337
<i>Author Index, Vol. 64</i>	349
<i>Keyword Index, Vol. 64</i>	353
<i>Contents, Vol. 64</i>	355